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**NEWSLETTER**

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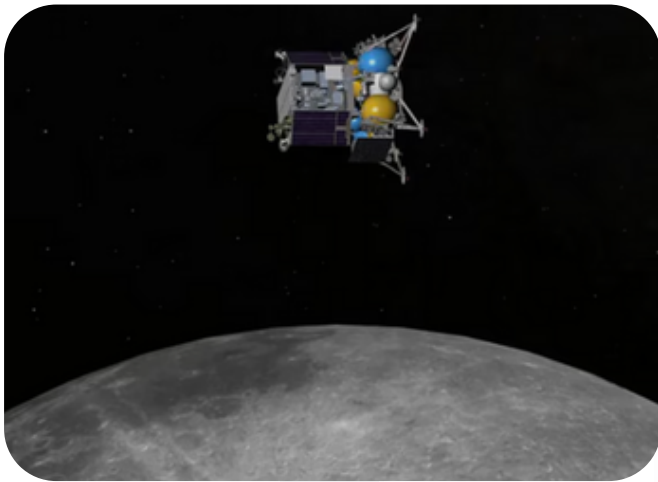
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# Tech Trends

- **China Unveils Photonic Quantum Chip with 1,000-Fold Speed Gains for Complex Tasks:** China released a new photonic quantum chip, developed by CHIPX and Turing Quantum, that accelerates calculations by over 1,000 times on select tasks, offering rapid design cycles and scalable production, but facing questions about stability and mainstream adoption.

[Read more](#)



- **Chandrayaan-3 Returns to Lunar Sphere, Delivers Vital Scientific Data:** ISRO's Chandrayaan-3 propulsion module has re-entered the Moon's sphere of influence, providing crucial scientific data and marking an important step in India's ongoing lunar exploration efforts.

[Read more](#)

- **ISRO Chairman Narayanan Reveals Ambitious Expansion, Chandrayaan-4 Mission Approved:** ISRO's V. Narayanan confirmed seven new launches this year, tripling spacecraft output, government approval for the Chandrayaan-4 sample return mission in 2028, and continued progress toward India's first human spaceflight in 2027.

[Read more](#)



- **Google Unveils Quantum Echo Algorithm: 13,000x Faster Than Top Supercomputers:** Google's Quantum Echoes algorithm, powered by the Willow quantum chip, is 13,000 times faster than classical supercomputers for select tasks—enabling breakthroughs in chemistry, molecular analysis, and paving the way for real-world quantum applications.

[Read more](#)

- **Elon Musk Envisions Optimus Robots Redefining Global Healthcare with Superhuman Precision:** Elon Musk asserts that Tesla's Optimus humanoid robots will democratize elite medical care by providing superhuman precision in surgery, making world-class healthcare universally accessible—though the technology's medical version remains under development.

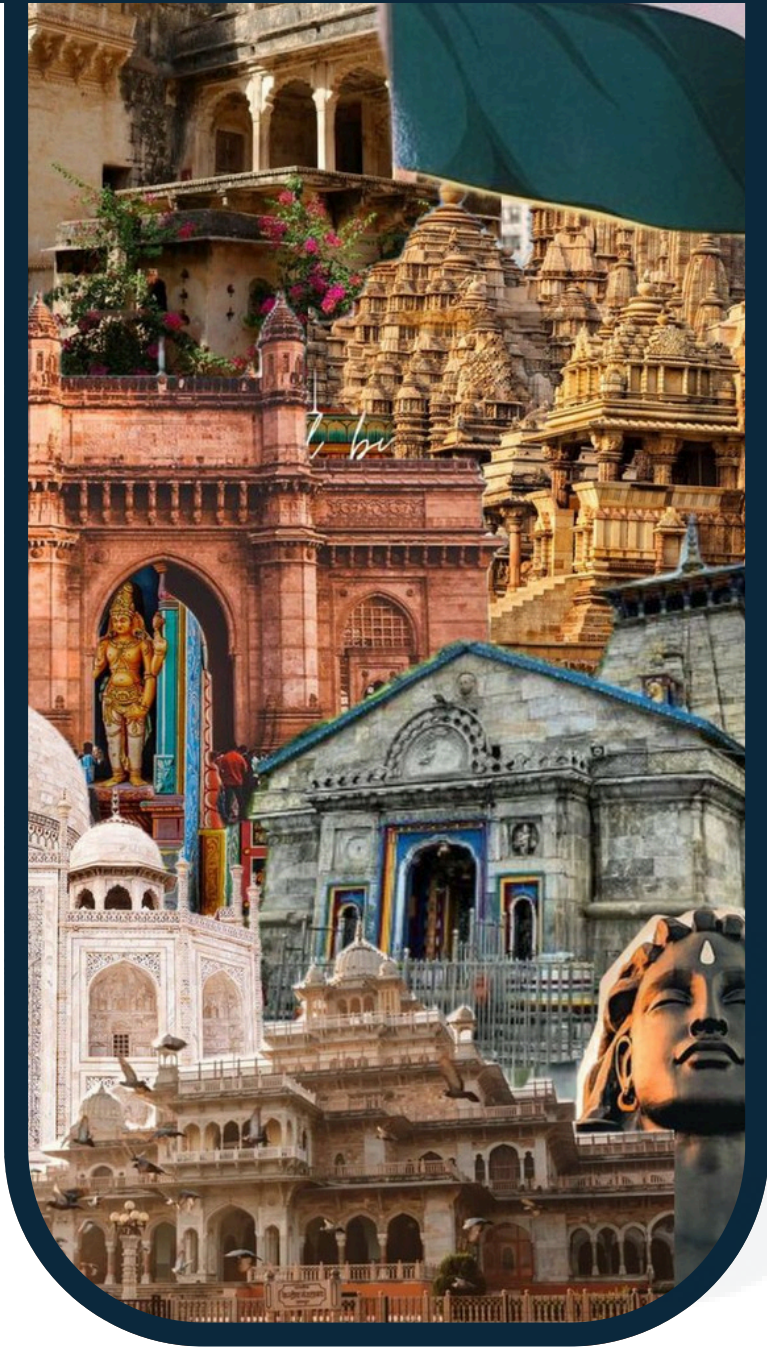
[Read more](#)





# World Wrap

## INDIA



- **NDA Sweeps Bihar Election**

NDA wins Bihar decisively as BJP becomes largest party; Nitish Kumar set for tenth term, while Congress alleges the election was unfair.

- **Accidental Blast in Nowgam**

A powerful accidental blast at Nowgam Police Station in Srinagar, caused by unstable seized explosives, led to significant damage and multiple injuries

- **Delhi Car Blast Declared Terror Attack**

Government confirms Red Fort car blast as a terror attack, heightening security nationwide after investigations link it to anti-national groups.

- **Samrat Rana Becomes World Champion**

Samrat Rana became world champion in the men's 10m air pistol event, securing gold and marking a historic achievement for Indian shooting.

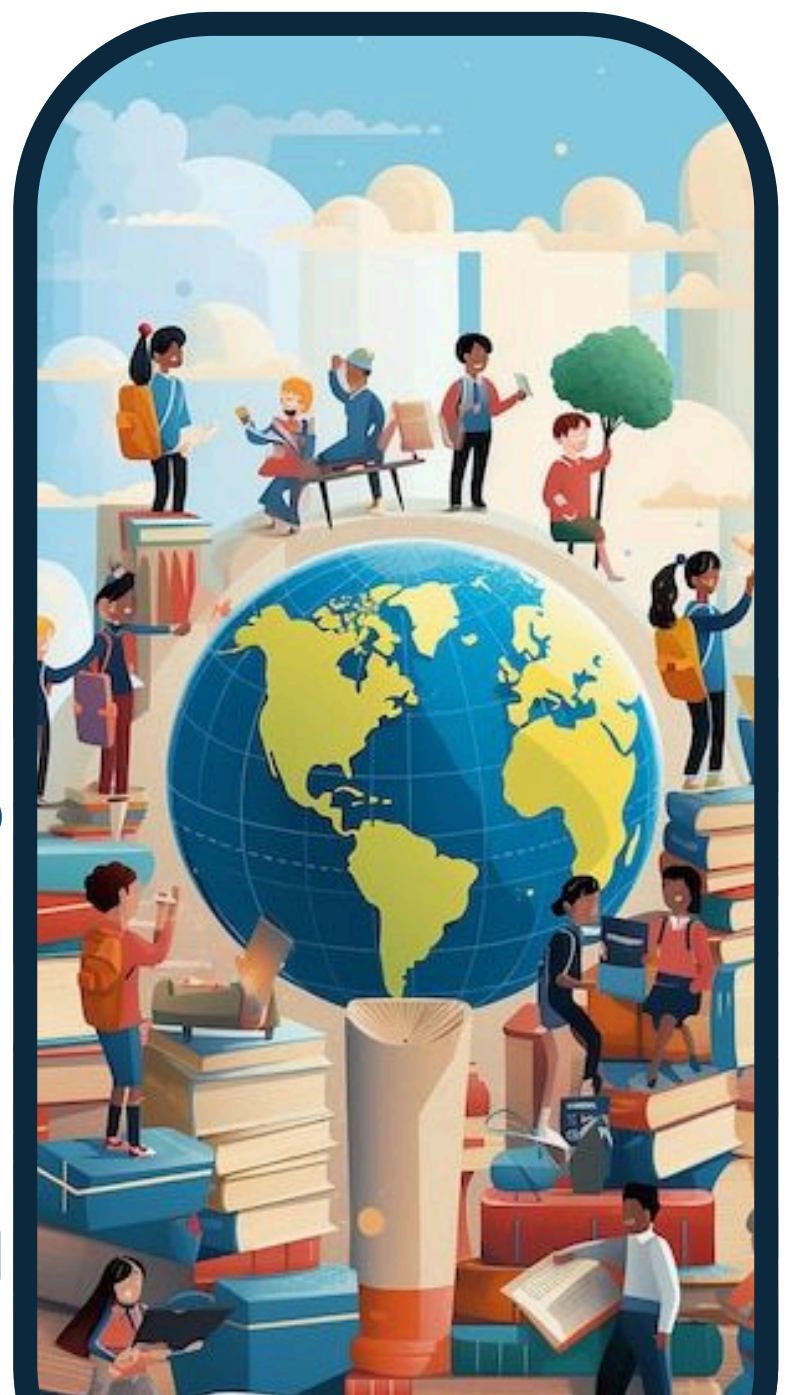
- **Srikanth Smashes Deaflympic Record**

Dhanush Srikanth won gold in the men's 10m air rifle at the Tokyo Deaflympics, setting a new world deaf record of 252.2.

- **Sansad Sports Festival Begins**

Over 1 lakh Jaipur residents aged 10–60 will participate in the “Fit India, Hit India” Sansad Sports Festival at SMS Stadium.

## Sports & Culture





# World Wrap

## Record-low Retail Inflation

India's retail inflation dropped to 0.25% in October due to falling food prices and GST cuts, boosting rate-cut hopes.

## GST Cuts Lower Inflation

Recent GST rate reductions shaved about 0.12 percentage points off October's retail inflation, contributing to the record-low 0.25% print.

## WPI Inflation Turns Negative

India's wholesale price index (WPI) inflation fell to -1.21% in October, driven by sharp deflation in food, fuel, and manufactured goods.

## Business & Economy



## Ukraine Ministers Corruption Scandal

Ukraine's Justice and Energy Ministers suspended amid \$100 million energy-sector kickback probe, sparking public outrage and government shake-up.

## Typhoon Fung-Wong Hits Philippines

Super Typhoon Fung-Wong killed at least 8, displaced 1.4 million people, triggered flooding, landslides, and widespread damage across the Philippines.

## Arattai Adds Chat Encryption

Zoho's Arattai messaging app now offers end-to-end encryption for personal chats, enhancing user privacy and overall security.

## Global & Tech





# CODING TIPS & CHALLENGES

## Tips

### Learn to Read Error Messages

They often tell you exactly what's wrong.

### Stay Curious

Always ask "What if?" and "How does this work?"

### Review Old Projects

You'll be amazed how much better you can make them now.

### Plan Before You Code

A clear roadmap saves hours of debugging.

### Don't Over-Engineer

Build only what's needed — nothing more.

## CHALLENGES

### Challenge 16: Count Characters (Basic)

Count total characters in a given string (excluding spaces).

### Challenge 17: Second Largest Element (Intermediate)

Find the second largest number in a list without sorting.

### Challenge 18: Anagram Checker (Advanced)

Check if two words are anagrams of each other.

Check out the solutions for all coding challenges here

## OPEN SOURCE SPOTLIGHT



# VLC Media Player

### VLC Media Player – Free, Powerful Media Player

VLC is a free and open-source media player that supports almost every audio and video format. It works across Windows, Mac, Linux, and mobile devices. With playback controls, subtitle support, and no ads, VLC is perfect for watching lectures, movies, and recorded sessions.

#### Key Features:

- Plays all major formats
- No ads or tracking
- Lightweight and fast
- 100% free and open-source





# ENGINEERING BEYOND CSE



## MECHANICAL

### VVDN Technologies Unveils Mechanical Innovation Park in Gurugram

VVDN Technologies has inaugurated a Mechanical Innovation Park in Gurugram, designed to advance research and manufacturing in areas such as rapid prototyping, mold and tool development, and high-precision part production. The facility aims to strengthen India's position in IoT hardware and advanced manufacturing, providing a future-ready environment for students and industry professionals to collaborate on next-gen mechanical innovations.

### Noida International Airport Becomes India's First Project to Use Low-Carbon LC3 Cement

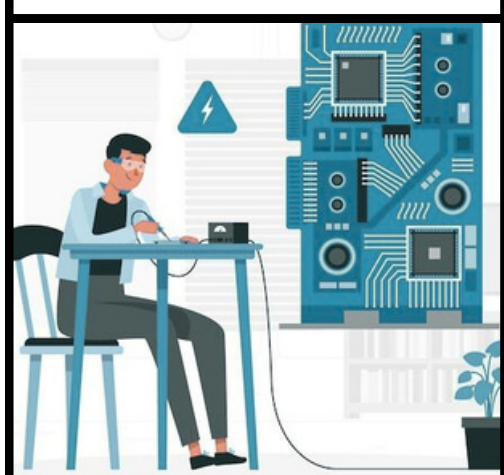
In a major step toward sustainable infrastructure, Noida International Airport has adopted **Limestone Calcined Clay Cement (LC3)** — a low-carbon alternative that emits nearly 40% less CO<sub>2</sub> and costs 25% less than traditional cement. The project sets a new benchmark for eco-friendly construction and supports India's broader climate goals without compromising strength or durability.



## CIVIL

## ELECTRICAL

### Indian Railways Tests Drone-Based Solar Panel Cleaning Technology



North Central Railway has successfully conducted a drone-based solar panel cleaning trial at its solar power plants. The drones efficiently clean panels without water, reducing both maintenance costs and manual labor. This innovation enhances power generation efficiency, promotes renewable energy adoption, and highlights Indian Railways' focus on sustainability and smart infrastructure.



# STARTUP & INNOVATION ZONE



## STARTUP TIP

- 1. **Focus First**  
Begin with one clear problem and build a simple, valuable customer solution.
- 2. **Validate Early**  
Test your MVP, gather quick feedback, and improve before growing bigger
- 3. **Scale Smart**  
Once it works small, expand gradually with focus, control, and sustainability.

## Startup of the Week



hoopr

Premium Indian Music For  
Creators & Brands

## NEWS

### UPDATE



#### Hoopr Raises ₹4 Crore to Expand Automated Music Licensing Marketplace

Indian music licensing platform Hoopr secured ₹4 crore in pre-Series A funding to scale its AI-powered marketplace Smash, enhance catalogs, deepen Bollywood and global music partnerships, and accelerate product innovation and international expansion.

[READ MORE](#)

## HOOPR

- Hoopr simplifies music licensing through a fully automated platform, boosting efficiency and accessibility for artists, businesses, and content creators.
- The startup's recent funding round demonstrates strong investor confidence and supports its goal to expand in India's fast-growing creator economy.
- By addressing the complex challenge of copyright management, Hoopr empowers creators with better monetization opportunities while providing businesses with hassle-free legal music use.



# Beyond Books

## Peter Drucker

“The best way to predict the future is to create it.”



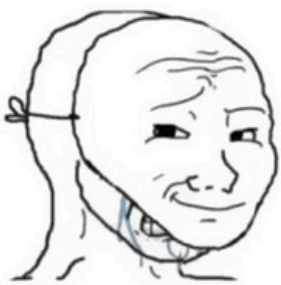
## Sheryl Sandberg

“Done is better than perfect.”



## Tech Giggles

### DESIGNERS



Look, we have similar ideas.



No! You stole my idea.

### PROGRAMMERS



Man, I stole your code.



It's not my code.

Run



Run as Administrator



sudo





# English Vocabulary Boost

## SPEAK SMART (Real-life Phrases)

### Apologizing

❌ My bad.

✅ I sincerely apologize for the misunderstanding.

### Greeting Professionally

❌ Hey!

✅ Good morning! Hope you're doing well today.

## WORD WISE (Vocab Boost)

### Help

Advanced: Assist / Support

Meaning: To make something easier for someone.

Example: He assisted his teacher during the event.

### Work

Advanced: Task / Assignment

Meaning: An activity done to achieve a result.

Example: She completed the assignment before the deadline.

## SYNONYMS & ANTONYMS

### Hot

Synonyms: Warm, Boiling, Scorching

Antonyms: Cool, Cold, Freezing

### Fast

Synonyms: Quick, Swift, Speedy

Antonyms: Slow, Sluggish, Lazy

## GRAMMAR GYAN

### Me / I

Me: Used as object.

Example: He gave the book to me.

I: Used as subject.

Example: I gave him the book.

# Community & Feedback



*Your Feedbacks are Really  
Valuable to Us*

**CORE**  
CONNECT

At Core Connect, no student misses out on tech trends, hackathons, or campus buzz! 🚀 Through our weekly newsletter, fun-filled events, and awareness sessions, we connect juniors and batchmates with exciting opportunities, career insights, and global happenings—while keeping things lively, engaging, and student-driven.

*Become a Valuable Part of Our Community  
Just on a Click*

